



Lanier Worldwide, Inc.

2300 Parklake Dr., N. E.

Atlanta, GA 30345-2979

Emergency Telephone: (800) 526-4371

MATERIAL SAFETY DATA SHEET

Section 1: Chemical Product and Company Information

Identity:	5415 Toner	MSDS No.	CP- 341
Product ID:	480-0047	Issued:	12/01/00
Synonyms & Common Names:	Black Toner for Lanier 5415	Supersedes:	None
Uses:	Lanier 5415 Digital Copier	Date:	12/01/00
Chemical Formula:	Mixture	Prepared by:	EH&S Department 770-496-9500
		Approved by:	Larry Choskey, Manager, CEH&S
		European Contact:	Lanier Worldwide, Inc. Walter Fricke, Manager, Safety & Environment Im Taubental D-41468 Neuss, Germany +49-2131-387-177

Section 2: Composition / Information on Ingredients

	PERCENT	CAS No.	EXPOSURE LIMITS	SOURCE
Polyester resin	> 90	Trade secret	Not listed	N/a
Carbon black	1 – 5	1333-86-4	3.5mg/m ³ 3.5mg/m ³	OSHA PEL ACGIH TWA
Polyolefin wax	1 – 5	Trade secret	Not listed	N/a
Organic pigment	1 – 5	Trade secret	Not listed	N/a

*PEL as the product: 15mg/m³ (total dust), 5mg/m³ (respirable dust)

*TLV as the product: 10mg/m³ (total dust), 5mg/m³ (respirable dust)

Section 3: Hazards Identification

Emergency Overview: Product is stable, nonflammable powder. If used as intended, the product does not present an acute or chronic health hazard.

Physical Hazards: This product is not classified as flammable or combustible. It will burn in case of fire. Avoid contact with strong oxidizers such as chromate, bromate and nitrates.

Routes of Exposure: Inhalation, dermal contact, incidental ingestion.

Inhalation: Excessive inhalation may cause irritation of the nose, throat and respiratory tract.

Eye Contact: Not an irritant.

Dermal Contact: Not an irritant, not a sensitizer.

Ingestion: None currently known.

Chronic effects/Carcinogenicity: See Section 11 Toxicological Information.

Reproductive/Developmental: None identified.

Target Organs: Prolonged breathing of high concentrations may cause adverse effects on the respiratory system.

Signs and Symptoms of Exposure: Prolonged exposure to dusts of this product may irritate the respiratory system.

Medical Conditions Aggravated by Exposure to this Product: Respiratory disorders, such as asthma, may be aggravated by prolonged exposure to high concentrations of this product.

Section 4: First Aid Measures

Inhalation:	Remove to fresh air immediately. Get medical attention if needed.	Eye Contact:	In case of contact, immediately flush eyes with water for 15 minutes. Get medical attention if needed.
Skin Contact:	Wash with soap and water. If irritation occurs or is persistent, seek medical attention	Ingestion:	Dilute stomach contents with several glasses of water. Get medical attention.

Section 5: Fire Fighting Measures

Suitable extinguishing media: CO₂, dry chemical, foam or water.

Ignition temperature: > 350°C

Extinguishing media which may not be used for safety reasons: none

This material will burn in case of fire. The decomposition products are CO, CO₂, and No_x. Avoid inhalation of smoke.

Special protective equipment for fire fighters: none

UEL: n/a

LEL: n/a

MATERIAL SAFETY DATA SHEET

Page 2 of CP-341

Section 6: Accidental Release Measures

Spill / leak Procedures: If spilled, sweep up using an approved toner vacuum with a 0.5 micron filter or smaller, such as the Atrix AAA Toner Vacuum or 3M Toner Vacuum. Use of a vacuum cleaner not rated for toner particles, could result in a fire or personal injury. Remove residue with soap and cold water.

Miscellaneous: Keep product out of sewers and watercourses.

Personal protection: Avoid inhalation of dust.

Section 7: Handling and Storage

Special Handling: Cleanse skin after contact before breaks or meals, and end of workday.

Special Storage: Avoid direct sunlight. Keep out of reach of children. Store in a cool, dry place.

Section 8: Exposure Control and Personal Protection Information:

Respiratory Protection: none required under normal use.

Hand Protection: none required under normal use.

Eye Protection: none required under normal use.

Skin Protection: none required under normal use.

Section 9: Physical and Chemical Properties

CHARACTERISTICS:

Appearance:	Black	Melting point:	110°C - 150°C
Form:	Powder	Vapor pressure:	n/a
Odor:	Odorless	Vapor density:	n/a
Solubility in Water:	Negligible	Evaporation rate:	n/a
Specific gravity:	1.1 – 1.5	Boiling point:	n/a

Section 10: Stability and Reactivity

Conditions to avoid: none

Materials to avoid: none

Stability: Stable

Hazardous decomposition products: CO and CO₂ and other decomposition products when burned.

Section 11: Toxicological Information:

Health Hazards (Acute, Chronic, Immediate and Potential): Minimum irritation to respiratory tract may occur as with exposure to any non-toxic dust. May cause gasping if inhaled. Inhalation should be avoided. May cause temporary eye discomfort.

Health Hazards of Long Term exposure (Chronic): A manufacturer sponsored chronic inhalation study in rats using a special test toner revealed there were no lung changes at all in the lowest exposure level (1mg/m³), the most relevant level to potential human exposures. A very slight degree of fibrosis was noted in 25% of the animals at the middle exposure level (4mg/m³), while a slight degree of fibrosis was observed at the highest exposure level (16mg/m³) in all animals. These findings are attributed to "Lung Overloading", a generic response to excessive amount of any dust retained in the lungs for a prolonged interval. The special test toner was ten times more respirable than commercially available toner to comply with EPA testing protocol and would not function properly in Xerographic equipment.

Carbon Black is listed on the IARC Monograph and the Massachusetts Substance List. The IARC has evaluated the evidence for the carcinogenicity of Carbon Black as inadequate to determine a carcinogenic risk for humans.

This product contains no known hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Section 12: Environmental / Ecological Information

None

Section 13: Disposal Consideration

Used Toner should be disposed of under conditions that meet all federal, state and local environmental regulations. Disposal regulations vary from locality to locality, therefore consult your local Lanier office or the EPA to determine the proper method for disposal. Do not incinerate loose or spilled Toner.

Section 14: Transportation Information

None. This is not a hazardous product.

Information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. On the basis of the data available to us, this product is not a dangerous substance. One should, however, observe the usual precautionary measures for dealing with chemicals.

MATERIAL SAFETY DATA SHEET

Page 3 of CP-341

Section 15: Regulatory Information

US/Canada Information

OSHA Hazard Communication Standard, 29CFR 1910. 1200: Not regulated

Toxic Substance Control Act (TSCA): All chemical substances in this product comply with all applicable rules or orders under TSCA.

RCRA (40 CFR 261): Product or components not listed.

CERCLA/SARA Information: Not regulated.

NTP Annual Report on Carcinogens: Not listed as an NTP carcinogen.

IARC: See section 11.

California Proposition 65: Neither toner, or any of the components, are listed as chemicals known to the State of California to cause cancer or reproductive system effects.

Controlled Products Regulations (Canada): This product has been classified in accordance with the hazard criteria of the CPR.

Other State Regulations: Carbon black is listed in the New Jersey Right to Know List, Pennsylvania Hazardous Substance List, and Massachusetts Substance List.

U.S./Canada Label Statements: LOW HAZARD FOR RECOMMENDED HANDLING. Minimize dust generation and accumulation.

Use with adequate ventilation.

EU Information

Label Information According to Directives 67/548 EEC & 88/379 EEC:

Symbol & Indication: Not required

Risk Phrase: Not required

Safety Advise Phrase: Not required

EEC Directive (76/548 EEC, 79/831 EEC, 92/32 EEC): All chemical substances in this product comply with all applicable rules or order under EEC Directive.

The Subject of Specific Provisions in Relation to Protection of Man or the Environment. Directive 76/769/EEC: Not required

National requirement: No specific regulations or restrictions.

Section 16: Miscellaneous Information

National Fire Protection Association (NFPA) Rating:

FLAMMABILITY = 0

HEALTH = 0

REACTIVITY = 0

Hazardous Materials Information System Rating (HMIS):

FLAMMABILITY (red) = 0

ACUTE EFFECTS (blue) = 0

REACTIVITY (yellow) = 0

Judgment as to the suitability of information contained herein for user's purposes is the responsibility of the purchaser. Therefore, although reasonable care has been taken in the preparation of this information, Lanier Worldwide, Inc. extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to user's intended purposes or for consequences of its use. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we do not guarantee that these are the only hazards that exist.

Information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. On the basis of the data available to us, this product is not a dangerous substance. One should, however, observe the usual precautionary measures for dealing with chemicals.